NEUROSCIENCE

An International Journal under the editorial direction of IBRO

Volume 39, 1990

SUBJECT INDEX

Compiled by C. M. Booth

PERGAMON PRESS OXFORD · NEW YORK
BEIJING · FRANKFURT · SÃO PAULO · SYDNEY · TOKYO · TORONTO

NEUROSCIENCE

Chief Editors

P. G. KOSTYUK: *Department of General Physiology, A. A. Bogomoletz Institute of Physiology, Academy of Sciences, Ukrainian SSR, 4 Bogomoletz Street, Kiev 24, 252601 GSP, U.S.S.R.*

R. LLINÁS: *Department of Physiology and Biophysics, New York University School of Medicine, 550 First Avenue, New York 10016, U.S.A.*

A. D. SMITH: *Department of Pharmacology, University of Oxford, South Parks Road, Oxford OX1 3QT, U.K.*

Editorial Board

R. G. BAKER (*New York*)
P. BANKS (*Sheffield*)
K. J. BERKLEY (*Tallahassee, FL*)
D. BIESOLD (*Leipzig*)
A. BJÖRKLUND (*Lund*)
J. P. BOLAM (*Oxford*)
P. BRODAL (*Oslo*)
A. G. BROWN (*Edinburgh*)
G. TEN BRUGGENCATE (*Munich*)
J. BUREŠ (*Prague*)
R. E. BURKE (*Bethesda, MD*)
G. BUZSAKI (*Newark, NJ*)
A. L. BYSOV (*Moscow*)
I. W. CHUBB (*Wollongong*)
F. CLEMENTI (*Milan*)
B. COLLIER (*Montreal*)
M. COSTA (*Adelaide*)
A. C. CUELLO (*Montreal*)
W. J. DAVIS (*Santa Cruz*)
A. C. DOLPHIN (*London*)
I. M. L. DONALDSON (*Edinburgh*)
D. EDGAR (*Liverpool*)
C. EDWARDS (*Tampa, FL*)
M. M. ESIRI (*Oxford*)
D. S. FABER (*Buffalo, NY*)
D. M. FAMBROUGH (*Baltimore*)
V. V. FANARDJIAN (*Yerevan*)
R. L. M. FAULL (*Auckland*)
G. GABELLA (*London*)
W. F. GANONG (*San Francisco*)
H. M. GERSCHENFELD (*Paris*)
J. GLOWINSKI (*Paris*)
A. M. GRAYBIEL (*Cambridge, MA*)
R. W. GUILLERY (*Oxford*)
G. HAEUSLER (*Darmstadt*)
J. HÁMORI (*Budapest*)
L. HEIMER (*Charlottesville*)
M. HERKENHAM (*Bethesda, MD*)
D. E. HILLMAN (*New York*)
T. HÖKFELT (*Stockholm*)
E. HOLTZMAN (*New York*)
P. HOLZER (*Graz*)
O. HORNYKIEWICZ (*Vienna*)
J. HOUNSGAARD (*Copenhagen*)
S. P. HUNT (*Cambridge*)
M. ITO (*Saitama*)
H. JAHNSEN (*Copenhagen*)
G. JAIM-ETCHEVERRY (*Buenos Aires*)
B. E. JONES (*Montreal*)
G. JU (*Xi'an, China*)
J. S. KELLY (*Edinburgh*)
B. I. KHODOROV (*Moscow*)
G. W. KREUTZBERG (*Munich*)
K. KRNJEVIĆ (*Montreal*)
L. LUBINSKA (*Warsaw*)
L. MAFFEI (*Pisa*)
C. A. MARSDEN (*Nottingham*)
M. R. MATTHEWS (*Oxford*)
P. B. C. MATTHEWS (*Oxford*)
A. I. MATUS (*Basel*)
R. E. MCCAMAN (*Duarte, CA*)
R. Y. MOORE (*New York*)
D. K. MOREST (*Farmington, CT*)
I. G. MORGAN (*Canberra*)
J. F. MORRIS (*Oxford*)
É. MUGNAINI (*Storrs*)
W. J. H. NAUTA (*Cambridge, MA*)
F. ORREGO (*Santiago, Chile*)
M. OTSUKA (*Tokyo*)
J. M. PALACIOS (*Basle*)
S. L. PALAY (*Concord, MA*)
R. E. PASSINGHAM (*Oxford*)
V. H. PERRY (*Oxford*)
J. M. POLAK (*London*)
P. RAKIC (*New Haven*)
H. J. RALSTON (*San Francisco*)
T. S. REESE (*Bethesda, MD*)
F. REINOSO-SUÁREZ (*Madrid*)
M. RÉTHELYI (*Budapest*)
P. N. RUDOMIN (*Mexico City*)
M. L. SHELANSKI (*New York*)
S. M. SHERMAN (*Stony Brook, NY*)
M. L. SHIK (*Moscow*)
M. V. SOFRONIEW (*Cambridge*)
P. SOMOGYI (*Oxford*)
C. SOTELO (*Paris*)
K. STARKE (*Freiburg*)
M. S. STARR (*London*)
M. STERIADE (*Laval, Québec*)
C. F. STEVENS (*New Haven*)
L. STJÄRNE (*Stockholm*)
C. STUMPF (*Vienna*)
K. SUZUKI (*Chapel Hill*)
R. F. THOMPSON (*Irvine, CA*)
A. M. THOMSON (*London*)
D. A. VASILENKO (*Kiev*)
E. S. VIZI (*Budapest*)
J. VOOGD (*Rotterdam*)
L. VYKLICKY (*Prague*)
X. S. T. WAN (*Beijing, China*)
K. E. WEBSTER (*London*)
R. WERMAN (*Jerusalem*)
W. D. WILLIS (*Galveston*)
H. WINKLER (*Innsbruck*)
L. R. YOUNG (*Cambridge, MA*)
S. ZEKI (*London*)
H. ZIMMERMANN (*Frankfurt*)

IBRO Publications Committee

Chairman, A. D. SMITH; M. ITO, E. R. KANDEL, P. G. KOSTYUK, K. KRNJEVIĆ, R. LLINÁS, D. RICHTER.

Aims and Scope:

Neuroscience publishes papers describing the results of original research on any aspect of the scientific study of the nervous system. Since one of the chief aims of the Journal is to promote communication between neuroscientists, the type of paper most suitable for publication is that in which new observations are clearly and succinctly reported and in which the purpose of the study is made meaningful to scientists of other disciplines. Any paper, however short, will be considered for publication provided that it reports significant, new and carefully confirmed findings with full experimental details. For *Instructions to Authors* see Vol. 34, No. 1, pp. iii–v.

Production Editor: A. P. CULLIS. *Editorial Assistant*: S. J. RUSSELL.

Copyright © 1992 IBRO
For copyright details see Back Cover

VOLUME 39 — SUBJECT INDEX

Note: For brain nuclei see relevant area, e.g. Hypothalamus, or under name of nucleus (e.g. Accumbens nucleus).

*Commentary

Abbreviations used:

ACh	Acetylcholine
cAMP	Adenosine 3',5'-cyclicphosphate
CGRP	Calcitonin gene-related peptide
ChAT	Choline acetyltransferase
CNS	Central nervous system
CRF	Corticotropin releasing factor
FGF	Fibroblast growth factor
GABA	Gamma-aminobutyric acid
GFAP	Glial fibrillary acidic protein
5-HT	5-Hydroxytryptamine
5-HTP	5-Hydroxytryptophan
IPSP	Inhibitory postsynaptic potential
LGN	Lateral geniculate nucleus
LHRH	Leuteinizing hormone releasing hormone
MAb	Monoclonal antibody
MAP	Microtubule associated protein
MEP?	Miniature endplate potential
MPTP	1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine
NA	Noradrenaline
NGF	Neuronal growth factor
NMDA	N-methyl-D-aspartate
PHI	Peptide histidine isoleucine
PHM	Peptide histidine methionine
TCP	N-(1-[2-thienyl]cyclohexyl) piperidine
TH	Tyrosine hydroxylase
VIP	Vasoactive intestinal peptide

Acetylcholine,
  effect on single Ca^{2+}-activated K^+ channel currents in bovids 39:815
  effect on electrical activity in single cortical somatosensory neurons in unanaesthetized rat 39:189

Acetylcholinesterase,
  localization in human spinal cord during development 39:97

Adenosine,
  stimulation of endogenous release by NMDA, kainate and quisqualate in rat cortical slices 39:441

Adenosine receptors,
  localization in hippocampus from post-mortem Alzheimers patients 39:613

Adrenal medulla,
  chromaffin cells,
    reduction in single Ca^{2+}-activated K^+ channel currents following administration of ACh in bovids 39:815

Afferent nerves,
  capsaicin induced transganglionic degeneration in rat spinal cord 39:501

Alumino-silicates,
  toxic effects on neuroblastoma cells 39:171

Alzheimer's disease,
  localization of NMDA, quisqualate, neurotensin, adenosine, benzodiazepine, 5HT, and opioid receptors in post-mortem human brain 39:613
  toxicity of alumino-silicates on cultured neuroblastoma cells 39:171

4-aminopyridine
  induction of circling behaviour by intranigral injection in rat: comparison with effects of muscimol 39:657

Arthritis,
  immunization with CGRP reduces inflammatory response in adjuvant model in rat 39:727

Basal Ganglia SEE ALSO specific areas

Basal Ganglia,
  distribution of neurotensin receptors in post mortem brains from Parkinson's disease and progressive supranuclear palsy patients 39:351

Benzodiazepine receptors,
  immunolocalization in human spinal cord at the LM and EM levels 39:361
  localization in hippocampus from post-mortem Alzheimers patients 39:613

Botulinum A toxin,
  inhibition of release of vasopressin release from permeabilized terminals of the rat neurohypophysis by the 50K subunit 39:711

Bradykinin,
  evidence for role of distinct phospholipases in mediation of hyperalgesia in rat 39:523

Brain,
  characterization of perivascular mast cells and response to carbachol and compound 48/80

39:209
distribution and morphology of microglia in normal adult mouse 39:151
distribution of somatostatin receptors in rat 39:127
isolation of mRNA and injection into Xenopus oocytes: demonstration of functional α-latrotoxin receptors 39:809

Brainstem,
electrical stimulation of A_1 cells or perfusion with oxytocin induces vasopressin release from the SON in rat 39:717

α-Bungarotoxin binding site,
role in neurite extension in PC12 cells 39:139

Calcitonin gene-related peptides,
demonstration of role in inflammatory response in rat adjuvant arthritis 39:727
immunolocalization in nerve endings of the rat paracervical autonomic ganglion 39:459

Calcium current,
effect of prolonged lithium treatment in frog twitch muscles 39:271

Calcium ions,
effect on desensitization of NMDA receptors in voltage clamped rat hippocampal neurons in culture 39:787

Capsaicin,
induction of transganglionic degeneration in rat spinal cord primary afferent fibres 39:501
stimulation of release of neuropeptides from human colon and characterization of motor response 39:833

Carbachol,
effect on rat brain mast cell secretion 39:209
use in identifying a neuronal population involved in REM sleep generation in cat anterodorsal pontine tegmentum 39:279

ß-Carbolines,
effect of administration on excitatory amino acid-induced seizures in mouse 39:799

Caudate nucleus,
5HT release is controlled by 5HT release and autoreceptors in dorsal raphe nucleus in cat 39:639

Caudorsal cells,
evidence for stimulation by a specific combination of 4 peptides in pond snail 39:479

Caudodorsal cell peptides,
evidence for a specific combination of four in eliciting the caudodorsal cell response in pond snail 39:479

Cell death,
naturally occurring; removal of dead cortical cells by a transient population of macrophages in developing rat 39:451

Central nervous system,
evidence for neurohormonal and paracrine role of insulin-related peptides in pulmonate snail 39:493
immunolocalization of type II glucocorticoid receptors in rat 39:579

Cerebellum,
covergent innnervation of single cells of the basilar pontine nucleus with innervation from the cerebral cortex in rat 39:561
effect of cis-DPP on development in rat 39:179
cortex,
immunolocalization of glutamate dehydrogenase in postnatal rat 39:419
Purkinje cells,
in vivo evidence for a neuromodulatory role for CRF in cat 39:251

Cerebral cortex,
convergent innnervation of single cells of the basilar pontine nucleus with innervation from the cerebellum in rat 39:561
effect of ACh on somatosensory neurons in unanaesthetized rat 39:189
effect of glycine and CNQX on EAA responses in rat brain slices 39:61
in vivo effect of monoamines on somatosensory neurons in unaesthetized rat 39:431
removal of dead cells by a transient population of macrophages in developing rat 39:451
stimulation of endogenous adenosine release by NMDA, kainate and quisqualate in rat brain slices 39:441

Cerebrovascular nerves,
coexpression of VIP and neuropeptide Y and demonstration of enhanced neuropeptide Y expression following long term sympathectomy in rat 39:775

Choline acetyl transferase,
demonstration of a single amino acid substitution in the temperature sensitive mutant in Drosophila 39:245

Cholinergic neurons,
characterization of population in anterodorsal pontine tegmentum involved in REM sleep generation 39:295

Chromogranin A,
distribution of protein and mRNA in rat olfactory system 39:605

Coeliac ganglion,
demonstration of sub-populations of neurons expressing the neurofilament protein triplet in guinea-pig 39:743

Colon,
stimulation of release of neuropeptides by capsaicin and effect on motor responses 39:833

Compound 48/80,
effect on rat brain mast cell secretion 39:209

Corticotropin-releasing factor,
possible neuromodulatory role in cat cerebellar Purkinje cells in vivo 39:251

6-Cyano-7-nitroquinoxaline-2,3-dione,
blockade of EAA responses in rat neocortical slices 39:69

Degeneration,
capsaicin-induced; transganglionic effect in rat spinal cord primary afferent fibres 39:501

Denervation,
long term; effect on re-innervation and functional recovery in mouse soleus 39:231

cis-Dichlorodiammineplatinum,
mechanism of degeneration of Purkinje neurons in rat cerebellum 39:179

Dopamine,
effect of antagonist, haloperidol, and 6OHDA induced lesion on feeding behaviour in rats 39:17
in vivo striatal levels in different in-bred strains of mice 39:649
modulation of release by glutamate in rat neostriatum 39:305
stimulated release: effect on neuronal activity in rat striatum 39:1

Dopamine receptors,
effect of striatal amphetamine stimulation on orofacial movements in rat 39:59

Dopaminergic neurons,
localization of delta- but not mu-opioid receptors in rat neostriatum 39:313

Dorsal horn,
characterization of responses tomechanical stimulation of muscle, tendon and joint receptors and control by descending pathways in rat 39:823

Dorsal root ganglion,
expression of tachykinin genes following axotomy of sciatic nerve and spinal dorsal roots 39:737

Dynorphin A,
effects of intrathecal injections on nociception, motor function and behaviour, and comparison with somatostatin, somatostatin analogues, and a substance P analogue in rat 39:761

Dynorphin B,
co-expression with substance P and enkaphalin in cat neostriatum 39:33

Enkephalin,
co-expression with substance P and dynorphin B in cat neostriatum 39:33
immunolocalization in human spinal cord during development 39:97
immunolocalization in woolly fibres in the Rhesus monkey forebrain 39:323

Epilepsy,
in chicken model; association with megalencephaly due to increase in neuron size 39:471
induced by excitatory amino acids: effects of antiepileptic drugs and ß-carbolines in mouse 39:799

Excitatory amino acids,
effects of glycine and CNQX on responses in rat neocortical slices 39:69
induction of epileptic seizures: effects of antiepileptic drugs and ß-carbolines in mouse 39:799

Feeding behaviour,
effect of dopamine antagonists in rat neostriatum 39:17

Forebrain,
immunolocalization of enkelphalin and substance P in woolly fibres of Rhesus monkey and relationship to striatal projections 39:323

GABA SEE Gamma-aminobutyric acid

GABAergic neurons,
demonstration of role of nigrocollicular pathway in inhibition of non-convulsive seizures in rat 39:339
localization of glucose decarboxylase mRNA in rat hypothlamus 39:675

Galanin,
expression in rat hypothalmus in response to hyperosmolality and nerve section 39:115

Gamma-aminobutyric acid,
immunolocalization in human spinal cord at the LM and EM levels 39:361

Gamma-aminobutyric acid receptors,
immunolocalization in human spinal cord at the LM and EM levels 39:361

Glucocorticoid receptor,
type II,
immunolocalization in rat CNS 39:579

Glucose decarboxylase,
localization of mRNA in rat hypothalamus 39:675

Glutamate,
immunolocalization in excitatory pathways in rat hippocampus 39:405
in vivo modulation of dopamine release in rat neostriatum 39:305
quantitation of binding sites in hippocampus from normal and schizophrenic humans 39:25

Glutamate dehydrogenase,
immunolocalization in neonatal rat hippocampus and cerebellar cortex 39:419

Glycine,
effect on desensitization of NMDA receptors in voltage clamped rat hippocampal neurons in culture 39:787
enhancement of EAA responses in rat neocortical slices 39:69
immunolocalization in laminae I-III in rat dorsal horn 39:387

Haloperidol,
effect on feeding behaviour in rats 39:17

Hippocampus,
5HT release following electrical stimulation of the dorsal Raphe nucleus and role of calcium channels in rat 39:629
immunolocalization of glutamate in excitatory pathways in rat 39:405
immunolocalization of glutamate dehydrogenase in postnatal rat 39:419
localization of NMDA, quisqualate, neurotensin, adenosine, benzodiazepine, 5HT, and opioid receptors in post-mortem human brain 39:613
quantitation of glutamate binding sites in normal and schizophrenic human brain 39:25

6-Hydroxydopamine,
induced lesions: effect on feeding behaviour in rats 39:17

5-Hydroxytryptamine,
in vitro release from rat thalamic mast cells 39:199
release in dorsal raphe nucleus controls release in caudate nucleus in cat 39:639
release in rat hippocampus following electrical stimulation of thedorsal Raphe nucleus and role of calcium channels 39:629

5-Hydroxytryptamine receptors,
localization in hippocampus from post-mortem Alzheimers patients 39:613

Hyperalgesia,
bradykinin and NA induced; role of distinct

phospholipases in rat 39:523

Hypothalamus,
galanin and vasopressin expression in response to hyperosmolality and nerve section in rat 39:115
localization of glucose decarboxylase mRNA in rat 39:675
stimulation of rat brainstem A_1 cells by electrical activity or oxytocin results in release of vasopressin from the SON 39:717
stimulation of the lateral side in rat elicits response in midbrain area associated with locomotion 39:665

Inflammation,
reduction in rat adjuvant arthritis model by circulating antibodies to CGRP 39:727

Insulin-related peptides,
evidence for a neurohormonal and paracrine role in CNS of pulmonate snail 39:493

Isoprenaline,
induction of morphological plasticity in cultured rat pituicytes 39:701

Kainic acid,
stimulation of endogenous adenosine release in rat cortical slices 39:441

Lamellar corpuscles,
effect of timing of nerve crush on regeneration in rat toe pads 39:513

Lateral geniculate nucleus,
demonstration of induced innervation by somatosensory neurons following cortical lesions at birth and in congenitally blind mice 39:533
role of burst firing and single spike activity in sensory information processing in guinea-pig relay neurons 39:103

α-Latrotoxin receptors,
functional expression in Xenopus oocytes following injection of rat brain mRNA 39:809

Lithium,
effect on excitation-contraction coupling in frog twitch muscle fibres: evidence for role of inositol phospholipids 39:271

Locomotion,
midbrain involvement in initiation following stimulation of the lateral hypothalamus in rat 39:665

Macrophages,
evidence for transient population in removal of dead cells in cerebral cortex of developing rat 39:451

Mast cells,
5-HT release from rat thalamus 39:199
perivascular from rat brain: characterization and induction of sectrtion by compound 48/80 and carbachol 39:209

Megalencephaly,
in chicken model is associated with increased neuronal size and number 39:471

N-methyl-D-aspartate,
stimulation of endogenous adenosine release in rat cortical slices 39:441

N-methyl-D-aspartate receptors,
effect of glycine and calcium on desensitization in rat hippocampal neurons in culture 39:787
localization in hippocampus from post-mortem Alzheimers patients 39:613

Microglia,
distribution and morphology in normal adult mouse brain 39:151

Midbrain,
locomotory responses elicited by stimulation of lateral hypothalmus in rat 39:665

Monoamines,
in vivo effect on anaesthetized rat cortical somatosensory neurons 39:431

Motor behaviour,
effect of intrathecal injections of somatostatin, somatostatin analogues, a substance P analogue and dynorphin A in rat 39:761
induction of circling by ruthenium red and 4-aminopyridine and comparison with muscimol in rat 39:657

Muscle,
effect of long term denervation on re-innervation and functional recovery in mouse soleus 39:231
effect of lithium and reverse of effect by inositol phospholipids in frog twitch fibres 39:271

Neccortex SEE Cerebral cortex

Neostriatum SEE ALSO specific areas

Neostriatum,
co-expression of substance P, dynorphin B and enkaphalin in cat 39:33
distribution of peptidergic projections to the forebrain in Rhesus monkey 39:323
effect of dopamine antagonists on rat feeding behaviour 39:17
effect of dopamine concentration on neuronal activity in rat 39:1
in vivo characterization of the glutamatergic control of dopamine release in rat 39:305
in vivo evidence for different levels of dopamine in different in-bred strains of mice 39:649
localization of delta- but not mu-opioid receptors on dopaminergic neurons in rat 39:313

role of dopamine receptors in orofacial movement in rat 39:59

Nerve growth factor,
possible involvement in tachykinin expression in rat DRG following axotomy 39:733

Neurofilament proteins,
immunolocalization of protein triplet in a sub-population of guinea-pig coeliac ganglionic neurons 39:743

Neurohypophysis,
inhibition of vasopressin release by botulinum A toxin 50k subunit in permeabilized terminals in rat 39:711

Neurokinins SEE Tachykinins

Neuropeptide Y,
co-localization with VIP in rat cerebrovascular parasympathetic nerves and enhancement of expression following long term sympathectomy 39:775

Neuropeptides,
evidence for a specific combination in eliciting the caudodorsal discharge in the pond snail 39:479

Neurotensin receptors,
distribution in basal ganglia of post mortem brains from Parkinson's disease and progressive supranuclear palsy patients 39:351
localization in hippocampus from post-mortem Alzheimers patients 39:613

Nociception,
effect of intrathecal injections of somatostatin, somatostatin analogues, a substance P analogue and dynorphin A in rat 39:761

Nociceptors,
characterization of inputs to rat dorsal horn neurons and control by descending pathways in response to mechanical stimulation of muscle, tendon and joints 39:823

Noradrenaline,
evidence for role of distinct phospholipases in mediation of hyperalgesia in rat 39:523

Norepinephrine SEE Noradrenaline

Olfactory sytem,
localization of chromogranin A protein and mRNA in rat 39:605

Opioid receptors,
evidence for localization of delta- but not mu-receptors in rat striatal dopaminergic nerve endings 39:313
localization in hippocampus from post-mortem Alzheimers patients 39:613

Orofacial movements,
role of dopamine receptors in rat neostriatum 39:59

Oxytocin,
perfusion of rat brainstem A_1 noradrenergic cells: parallel effect with electrical stimulation on vasopressin release in the SON 39:717

Paracervical ganglia,
immunolocalization of CGRP in autonomic nerves originating from the DRG in rat 39:459

Parasympathetic neurons,
coexpression of VIP and neuropeptide Y in rat cerebrovascular neurons arising from the pterygopalantine ganglion and enhancement of neuropeptide Y following long term sympathectomy 39:775

Parietal cortex,
characterization of thalamic projections to layer 1 in cat and monkey 39:547

Parkinson's disease,
distribution of neurotensin receptors in post mortem human brain 39:351

PC12 cells,
induction of neurites by thymopoietin and α-bungarotoxin 39:139

Peptide YY,
immunolocalization in rat peripheral sympathetic nervous system 39: 225

Phospholipases,
characterization in bradykinin and noradrenaline mediated hyperalgesia in rat 39:523

Pituitary,
in vitro morphological plasticity in neural lobe invoked by β-adrenergic agonist, isoprenaline, in rat 39:701

Plasticity,
morphological changes in cultured rat pituicytes following β-adrenergic stimulation: comparison with observations in the neural lobe of the pituitary in vivo 39:701

Pontine nuclei,
basilar,
evidence for dual innervation of single cells from cortical and cerebellar afferent fibres in rat 39:561

Potassium ion channels,
calcium activated,
effect of ACh on currents in bovids 39:815

Progressive supranuclear palsey,
distribution of neurotensin receptors in post mortem human brains 39:351

Quisqualic acid,
stimulation of endogenous adenosine release in rat cortical slices 39:441

Raphe nucleii,
dorsal,
electrical stimulation induces 5HT release in rat hippocampus 39:629
evidence that 5HT release and autoreceptors control 5HT release in the caudate nucleus in cat 39:639

Regeneration,
effect of long term denervation in mouse soleus muscle 39:231
effect of timing of nerve crush on subsequent re-innervation of lamellar corpuscles in rat toe pad 39:513

Rhythmic activity,
in vitro study of intermediolateral cell nucleii of neonatal rat spinal cord 39:395

Ruthenium red,
induction of circling behaviour by intranigral injection in rat: comparison with effects of muscimol 39:657

Schizophrenia,
quantitation of glutamate binding sites in human hippocampus 39:17

Seizures,
effect of antiepileptic drugs and β-carbolines following intracerebral administration of excitatory amino acids in mouse 39:799
non-convulsive; role of GABAergic nigrocollicular pathway in inhibition in rat 39:339

Sensory processing,
role of burst firing and single spike activity in guinea-pig LGN relay neurons 39:103

Serotonin SEE 5-Hydroxytryptamine

Sleep,
characterization of a population of cholinergic neurons in the cat anterodorsal pontine tegmentum involved in REM 39:295

demonstration of a REM zone in the cat anterodorsal pontine tegmentum 39:279

Somatosensory neurons,
effect of ACh on single cortical cells in unanaesthetized rat 39:199
effect of monoamines on activity in unanaesthetized rat cortex in vivo 39:431
evidence for re-routing of thalamic afferent neurons to the LGN in congenitally blind mice and in mice given a cortical lesion at birth 39:533

Somatostatin,
effects of intrathecal injections on nociception, motor function and behaviour, and comparison with somatostatin analogues, a substance P analogue and dynorphin A in rat 39:761

Somatostatin analogues,
effects of intrathecal injections on nociception, motor function and behaviour, and comparison with somatostatin, a substance P analogue and dynorphin A in rat 39:761

Somatostatin receptors,
distribution of subtypes in rat brain 39:127

Spinal cord,
capsaicin induced transganglionic degeneration of afferent fibres in rat 39:501
characterization of dorsal horn neuronal responses to mechanical stimulation of muscle, tendon and joint receptors and control by descending pathways in rat 39:823
electrophysiological responses to repetitive stimulation of type A spinal ganglion neurons in anaesthetized cat 39:259
electrophysiological study of rhythmic activity in cultured intermediolateral cell nucleii in neonatal rat 39:395
localization of AChE, substance P and enkephalin in human sympathetic intermediate zone during development 39:97
immunolocalization of GABA, GABA- and benzodiazepine receptors in human at the LM and EM level 39:361
immunolocalization of glycine in laminae I-III of rat dorsal horn 39:387

Spinal ganglion neurons,
electrophysiological responses to repetitive stimulation of central and peripheral cell processes in anaesthetized cat 39:259

Striatum SEE Neostriatum

Substance P,
co-expression with dynorphin B and enkaphalin in cat neostriatum 39:33
immunolocalization in human pontomesencephalic tegmental neurons 39:81
immunolocalization in human spinal cord during development 39:97
immunolocalization in woolly fibres in the rhesus monkey forebrain 39:323

Substance P analogues,
effects of intrathecal injections on nociception, motor function and behaviour, and comparison with somatostatin, somatostatin analogues, and dynorphin A in rat 39:761

Substantia nigra,
demonstration of a GABAergic nigrocollicular pathway in the inhibition of non-convulsive seizures in rat 39:339
injection of ruthenium red, 4-aminopyridine or muscimol induces circling behaviour in rat 39:657

Superior cervical ganglion,
co-localization of peptide YY and neuropeptide Y in rat 39:225

Sympathetic nervous system,
immunolocalization of peptide YY in rat 39:225

Tachykinins SEE ALSO Neurokinins

Tachykinins,
expression in rat DRG following axotomy of peripheral and central nerves: possible involvement of NGF 39:733

Tegmental nucleii,
immunolocalization of substance P in human brainstem 39:81

Tegmentum,
anterodorsal pontine,
demonstration of a population of neurons involved in REM sleep generation in cat 39:279
characterization of neurons involved in REM sleep in cat 39:295

Thalamus,
characterization of projections to layer 1 of the parietal cortex in cat and monkey 39:547
demonstration of re-routing of afferent fibres to the LGN following cortical lesions at birth and in congenitally blind mice 39:533
5-HT release from mast cells in rat 39:199

Thymopoietin,
role in neurite extensions in PC12 cells 39:139

Uterus,
immunolocalization of CGRP in cervical varicosities originating from the DRG in rat 39:459

Vasoactive intestinal peptide,
co-localization with neuropeptide Y in cerebrovascular parasympathetic nerves in rat 39:775

Vasopressin,
capsaicin induced release in human colon and possible mechanism of local motor response 39:833
expression in rat hypothalmus in response to hyperosmolality and nerve section 39:115
inhibition of release by botulinum A toxin 50K subunit in rat neural lobes in vitro 39:711
release in SON by electrical stimulation or oxytocin perfusion of brainstem A_1 cells in rat hypothalamus 39:717